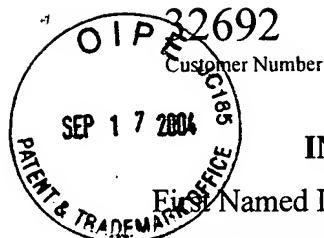


JFW



Patent
Case No.: 58623US002

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named Inventor: ANDERSON, MARK T.

Application No.: 10/728490 Group Art Unit: 1711
Filed: December 5, 2003 Examiner: Unknown
Title: PROCESS FOR PRODUCING PHOTONIC CRYSTALS

INFORMATION DISCLOSURE STATEMENT

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Commissioner for Patents
P.O. Box 1450
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CERTIFICATE OF MAILING	
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SEP 14 2004	<i>Lydia M. Cahill</i>
Date	Signed by Lydia M. Cahill

Dear Sir:

Pursuant to 37 CFR §§ 1.56, 1.97, and 1.98, enclosed is a completed Form PTO-1449, citing references submitted for consideration by the Examiner. Copies of any cited foreign patents, non-patent literature, and unpublished US application documents are enclosed. Pursuant to the waiver in the Pre-OG Notice, dated July 11, 2003, copies of US patents and published US patent applications are no longer required and are not enclosed. It is respectfully requested that the Examiner initial and return the enclosed Form PTO-1449 to indicate that each reference has been considered.

If a first Office Action on the merits has been mailed prior to the mailing date of this document, please charge the fee for consideration of an Information Disclosure Statement set forth in 37 CFR § 1.17(p), and if necessary, please charge any additional fees, or credit any overpayment to Deposit Account No. 13-3723.

Respectfully submitted,

September 13, 2004
Date

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Office of Intellectual Property Counsel
3M Innovative Properties Company
Facsimile No.: 651-736-3833

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Filing Date

December 5, 2003

First Named Inventor

Anderson, Mark T.

Art Unit

1711

Examiner Name

Attorney Case Number

58623US002

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U.S. Patent Documents

Exam. Init.*	Cite No.	Document Number	Publication Date or Issue Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Doc. Number-(Kind Code if Known)			
	A1	US- 2801185	07/30/1957	R.K. Iler	
	A2	US- 3018262	01/23/1962	Schroeder	
	A3	US- 3117099	01/07/1964	Proops et al.	
	A4	US- 3729313	04/24/1973	Smith	
	A5	US- 3741769	06/26/1973	Smith	
	A6	US- 3779778	12/18/1973	Smith et al.	
	A7	US- 3808006	04/30/1974	Smith	
	A8	US- 4250053	02/10/1981	Smith	
	A9	US- 4279717	07/21/1981	Eckberg et al.	
	A10	US- 4394403	07/19/1983	Smith	
	A11	US- 4491628	01/01/1985	Ito et al.	
	A12	US- 4522958	06/11/1985	Das et al.	
	A13	US- 4642126	02/10/1987	Zador et al.	
	A14	US- 4652274	03/24/1987	Boettcher et al.	
	A15	US- 4735632	04/05/1988	Oxman et al.	
	A16	US- 4751138	06/14/1988	Tumey et al.	
	A17	US- 4859572	08/22/1989	Farid et al.	
	A18	US- 4963471	10/16/1990	Trout et al.	
	A19	US- 5142385	08/25/1992	Anderson et al.	
	A20	US- 5238744	08/24/1993	Williams et al.	
	A21	US- 5335240	08/02/1994	Ho et al.	
	A22	US- 5406573	04/11/1995	Ozbay et al.	
	A23	US- 5440421	08/05/1995	Fan et al.	
	A24	US- 5545676	08/13/1996	Palazzotto et al.	
	A25	US- 5600483	02/04/1997	Fan et al.	
	A26	US- 5739796	04/14/1998	Jasper, Jr. et al.	
	A27	US- 5753346	05/19/1998	Leir et al.	
	A28	US- 5770737	06/23/1998	Reinhardt et al.	

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	A29	US- 5856373	01/05/1999	Kaisaki et al.	
	A30	US- 5859251	01/12/1999	Reinhardt et al.	
	A31	US- 5998495	12/07/1999	Oxman et al.	
	A32	US- 6025406	02/15/2000	Oxman et al.	
	A33	US- 6054007	04/25/2000	Boyd et al.	
	A34	US- 6100405	08/08/2000	Reinhardt et al.	
	A35	US- 2002/0059897	05/23/2002	John et al.	

Foreign Patent Documents							
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		Ctry. Code	Number-KindCode (If known)				
	B1	PCT	WO 98/21521	05/22/1998			
	B2	PCT	WO 99/53242	10/21/1999			
	B3	PCT	WO 01/96409	12/20/2001			
	B4	EP	1 052 312	11/15/2000			

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS		
Exam. Init.*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
	C1	R. D Allen et al. in Proc. SPIE <u>2438</u> , 474 (1995)
	C2	I. B. Berlman in <u>Handbook of Fluorescence Spectra of Aromatic Molecules</u> , Second Edition, pages 24-27, Academic Press, New York (1971)
	C3	Beringer et al., J. Am. Chem. Soc. 81, 342 (1959)
	C4	Bull. Chem. Soc. Japan, <u>42</u> , 2924-2930 (1969)
	C5	Busch et al., "Photonic Band Gap Formation in Certain Self-Organizing Systems", Physical Review E <u>58</u> , 3896 (1998)
	C6	C. J. Brinker and G. W. Scherer, <u>Sol-Gel Science</u> , Academic Press, New York, pp. 501-505 (1990)
	C7	M. Campbell et al., <u>Nature</u> , 2002, p. 404, Volume 53
	C8	A. Chutinan and S. Noda, in Appl. Phys. Lett. <u>75</u> (24), 3739 (2002)
	C9	R. J. Cox, <u>Photographic Sensitivity</u> , Chapter 15, Academic Press (1973)
	C10	I. Divliansky et al. in Applied Physics Letters <u>82</u> , 1667 (2003)
	C11	J. N. Demas and G. A. Crosby in J. Phys. Chem. <u>75</u> , 991-1024 (1971)

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	C12	D. F. Eaton in <u>Advances in Photochemistry</u> , edited by B. Voman et al., Volume 13, pp. 427-488, John Wiley and Sons, New York (1986)
	C13	Ho <i>et al.</i> in Phys. Rev. Lett. <u>65</u> (25), 3152 (1990)
	C14	S.G. Johnson <i>et al.</i> in Appl. Phys. Lett. <u>77</u> , 3490 (2000)
	C15	Kondo <i>et al.</i> in Applied Physics Letters <u>79</u> , 725 (2001)
	C16	Kondo <i>et al.</i> in Applied Physics Letters <u>82</u> , 2759 (2003)
	C17	Yu. V. Miklyaev <i>et al.</i> in Applied Physics Letters <u>82</u> , 1284 (2003)
	C18	J. V. Morris, M. A. Mahoney, and J. R. Huber in J. Phys. Chem. <u>80</u> , 969-974 (1976)
	C19	D. J. Norris and Y. A. Vlasov in Adv. Mater. <u>13</u> (6), 371 (2001)
	C20	H.B. Sun <i>et al.</i> , Applied Phys. Letters, 1999, 74(6), pp. 786-788
	C21	A. J. Turberfield in MRS Bulletin, p. 632, August 2001
	C22	C. Xu and W. W. Webb in J. Opt. Soc. Am. B, 13, 481 (1996)
	C23	S. Yang <i>et al.</i> in Chemistry of Materials <u>14</u> , 2831-2833 (2002)
	C24	Yablonovitch <i>et al.</i> in Physica B, <u>175</u> (1-3), 81 (1991)
	C25	W. Zhou <i>et al.</i> in Science <u>296</u> , 1106 (2002)
	C26	R.D. Allen <i>et al.</i> , High Performance Acrylic Polymers for Chemically Amplified Photoresist Application, <u>Journal of Vacuum Science and Technology B</u> Vol. 9, pp. 3357
	C27	Chutinan <i>et al.</i> , Highly Confined Waveguides and Waveguide Bends in Three- Dimensional Photonic Crystal, <u>Applied Physic Letters</u> Vol. 75 (24), p. 3739
	C28	P.W. Oliveira <i>et al.</i> , <u>Fabrication of GRIN-Materials By Photopolymerization of Diffusion Controlled Organic-Inorganic Nanocomposite Materials</u> . Better Ceramics Through Chemistry VII: Inorganic/organic hybrid materials, San Francisco, Materials Research Society Symposium Proceedings. 1996
	C29	W. Nakagawa <i>et al.</i> , Fabrication of Two-Dimensional Photonic Crystals with Controlled Defects By Use of Multiple Exposures and direct write, <u>Applied Optics</u> , Vol. 42 (27), pp. 5450-5456, 2003.
	C30	K. Saravanamuttu <i>et al.</i> , Sol-gel Organic-Inorganic Composites for 3-D Holographic Lithography of Photonic Crystals with Submicron Periodicity, <u>Chemistry of Materials</u> Vol. 15, pp. 2301-2304, 2003.
	C31	H. Segawa <i>et al.</i> , Fabrication of Photonic Crystal Structures by Femtosecond Laser-induced Photopolymerization of Organic-inorganic Film, <u>Journal of Sol-Gel Science and Technology</u> , Vol. 26, pp. 1023-1027, 2003.
	C32	J. Serbin <i>et al.</i> , Femtosecond Laser-induced Two-Photon Polymerization of Inorganic-organic Hybrid Materials For Application in Photonics, <u>Optics Letters</u> , Vol. 28 (5) pp. 301-303, 2003.
	C33	D.N. Sharp <i>et al.</i> , Photonic Crystals for the Visible Spectrum by Holographic Lithography, <u>Optical and Quantum Electronics</u> , Vol. 34 (1-3), pp. 3-12, 2002.
	C34	M. Straub <i>et al.</i> , Near-Infrared Photonic Crystals With Higher-Order Bandgaps Generated by Two-Photon Photopolymerization, <u>Optics Letters</u> , 27 (20) pp. 1824-1826, 2002.

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